Claims 1-33 remain in the application for further prosecution. Claims 1 and 2 have been

amended. The Applicant thanks the Examiner for allowance of claims 21-23.

§ 112 Rejections

Claims 1-16 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for

failing to particularly point out and distinctly claim the subject matter which applicant regards as

the invention. Applicant has amended claim 1 so as to obviate the section 112 rejection. Claim

1 now requires a model-retention section in the lower region, and the model-retention section

includes a smaller transverse dimension relative to the lowermost section. As such, the model-

retention section helps to axially retain the implant analog within the model. One example of

such a configuration is provided by a lower groove, as set forth in claim 2.

§ 103 Rejections

Claims 1-20 and 24-33 are rejected under 35 U.S.C. § 103(a) as being unpatentable over

U.S. Patent No. 5,419,702 (Beaty) in view of U.S. Patent No. 5,863,201 (Lazzara).

The Applicant respectfully suggests that a prima facie case of obviousness has not been

established. On page 4 of the Office Action, it is suggested that the skilled artisan would have

combined Lazzara and Beaty, yet no reason or motivation for such a combination is set forth.

Specifically, it is suggested that the skilled artisan would have taken Beaty's implant analog and

"provided an analog with an unthreaded main body, flat section, lower grooved section and an

upper section that extends above the bone which replicates the upper above bone section of the

Lazzara implant." Office Action, p. 4. In essence, this statement suggests to simply take the

narrow neck portion 14 in Lazzara's implant and add it to Beaty's analog. But, there is no reason

Page 9 of 12

CHICAGO 295871v1 47168-00216

or motivation to make such a modification to (or a combination of) Lazzara's implant and

Beaty's analog. Because it is the Examiner's burden to set forth this motivation or suggestion, a

prima facie case of obviousness has not been established for this reason alone. M.P.E.P. §§ 2142

& 2143.

More importantly, when considering the clinical procedure and reasoning for taking an

impression, it is clear that the skilled artisan would never combine Lazzara's implant and

Beaty's analog. First, the groove in the inventive analog that receives the soft modeling material

is **not** intended or designed to replicate any structure on the dental implant. The sole purpose for

this groove is to provide a structure to which the soft-tissue modeling material can grasp so as to

hold the soft-tissue modeling material on the stone model. See Paragraph 22, US 2003/0162148

(the published version of the present application). On an analog, such as the analog 10 of the

present invention, the only exterior features that are intended to replicate corresponding

structures on the dental implant are at or above the upper surface 18 (e.g., the upper surface 18

itself, the polygonal fitting 20 on the upper surface 18, and the threaded bore 22). Paragraph 20,

US 2003/0162148. The reason for this is simple – the analog is used in the process for

developing the final prosthesis that will be attached to the implant, and the structures on the

implant that are required for attachment to the dental prosthesis are the upper surface, the

polygonal fitting, and the threaded bore. Hence, replicating an exterior structure on the dental

implant that is below the implant's upper surface is unnecessary (and, thus, a wasteful

manufacturing step) because the dental prosthesis will not contact any such structure located

below the upper surface.

Page 10 of 12

CHICAGO 295871v1 47168-00216

Second, the entire teaching of Lazzara's implant and the bone recession must be

considered in determining obviousness. Lazzara teaches that, in some instances, the exterior

bone surface (denoted as line A-A in FIG. 1) may recede from the upper head portion 12 of the

implant 10. Lazzara teaches that this process does not occur immediately after the implant has

been installed, or otherwise worked on, by the clinician. In particular, Lazzara teaches that the

implant 10 "is buried in bone up to and including the head portion 12, to the level indicated by

line A-A in FIG. 1." Lazzara, Col. 2, line 65 to Col. 3, line 2. After healing of the bone and soft

tissue has occurred and once masticatory forces are applied, the bone begins to recede to a

steady-state condition at approximately 18 months. Col. 3, lines 7-11. In other words, bone

recession does not occur and, thus, the neck portion 14 (incorrectly referred to by the Examiner

as the "upper groove 14") of the implant 10 is not exposed, until after the dental prosthesis has

been mounted on the implant 10. See also Lazzara at Col. 1, lines 30-40, which notes that this

phenomenon occurs at 18 months after the implant "is performing its task of supporting artificial

dentition." Accordingly, if the dental prosthesis has already been attached to the implant when

the bone recedes to neck portion 14, any impression that was taken at the site would have

necessarily occurred while bone remained at level A-A. This begs the question – why would

one of ordinary skill in the art, after considering the entire teaching of Lazzara, conclude that the

implant analog should have an upper groove to match to the neck portion 14 of Lazzara's implant

when there is no possibility that the neck portion 14 would ever receive or contact the impression

material that is used with the implant analog to create a model?

In summary, in addition to the fact that the Office Action fails to provide any motivation

for combining Lazzara and Beaty, when one considers their entire teachings, it is clear that there

Page 11 of 12

CHICAGO 295871v1 47168-00216

Application No. 10/081,422

Amendment "B" dated January 21, 2005

Reply to Office Action dated September 21, 2004

is no logical reasoning to create an upper groove on Beaty's prior art analog simply because

Lazzara's implant 10 has a neck portion 14. Moreover, there is absolutely no teaching in either

reference about soft-tissue modeling material being placed in an upper groove of an implant

analog (or an implant) for retention purposes of the soft-tissue modeling material. Consequently,

Applicant respectfully requests reconsideration of the rejections.

Conclusion

It is the Applicant's belief that all of the claims are now in condition for allowance and

action towards that effect is respectfully requested.

If there are any matters which may be resolved or clarified through a telephone interview,

the Examiner is requested to contact the undersigned attorney at the number indicated.

Respectfully submitted,

Date: January 21, 2005

Daniel J. Burnham Reg. No. 39,618

Jenkens & Gilchrist

225 West Washington Street, Suite 2600

Chicago, IL 60606-3418

(312) 425-3900

Attorney for Applicant

Page 12 of 12